

Grade 5 Science Assessment

Winter 2005

Released Items

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DIRECTIONS

In this test you will demonstrate your understanding of science.

This test includes both multiple-choice and written-response questions. For the multiple-choice questions, use only a No. 2 pencil to mark your answers. Make a dark mark that completely fills the corresponding circle in your **Answer Folder**. If you are not sure of the answer to a multiple-choice question, mark your *best* choice and go on to the next question. If you change an answer, be sure to erase the first mark completely. Remember, mark only one answer for each question.

Mixed in with the multiple-choice questions are written-response questions. These questions require you to write sentences or paragraphs in your **Answer Folder**. Try to show all that you know about the topics by writing as much as you can in response to the questions you are asked. Make sure you at least attempt to answer each question. Record your written responses in the **Answer Folder** on the lines or spaces provided. Make sure the number of the question corresponds to the number in the **Answer Folder**.

If you do not understand any of these directions, please raise your hand.

You may now begin.

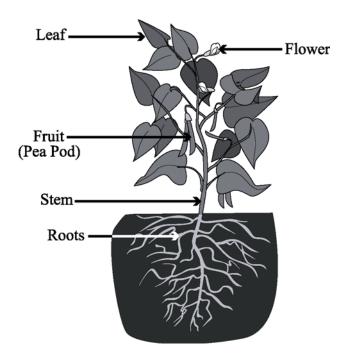
Use the following information to answer questions 3 through 5.

Leo and his family are camping in an area close to one of California's deserts. Leo notices that there are high mountains far to the west and flat plains far to the east.



- Weathering by wind and rain changes the features of any landscape over time. Which of the following will *most likely* happen to the area over time?
 - **A** Nothing will happen.
 - **B** The river will reverse its flow.
 - C The mountains will become smaller.
 - **D** An ocean will form in the flat plains.
- 4 Which of the following is Leo *most likely* to find in the desert?
 - A seashells
 - **B** wetlands
 - C sand dunes
 - **D** glacial valleys
- 5 What information **CANNOT** be learned from studying an animal fossil?
 - **A** the age of the animal
 - **B** how much the animal weighed
 - C how long ago the animal lived
 - **D** the number of offspring the animal had

Use the following information to answer questions 18 through 21.



There are over 265,000 known species of plants on Earth. These plants are divided into groups based on their characteristics. The pea plant above belongs to a group of plants called seed plants.

18 A plant's stem

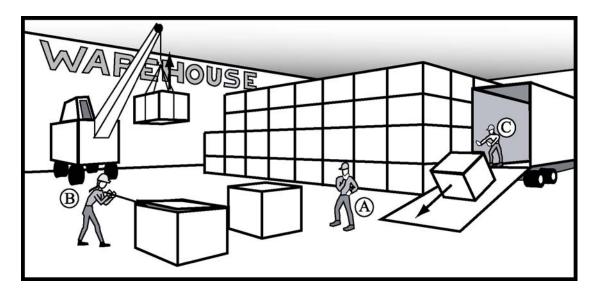
- **A** supports the plant.
- **B** produces seeds for the plant.
- **C** anchors the plant in the soil.
- **D** absorbs water and minerals from the soil.

19	Whi	Which of the following is required in order for seeds to germinate?		
	A	soil		
	В	light		
	C	water		
	D	oxygen		
20	Plan	nts produce their own food.	. In which part of the plant is <i>most</i> of its food produced?	
	A	leaf		
	В	fruit		
	C	stem		
	D	root		
ANS	SWEF	R THE FOLLOWING CO	ONSTRUCTED-RESPONSE ITEM IN YOUR ANSWER FOLDER.	
21		nstructed-Response	Plants are important to human beings in many ways.	

NOTHING WRITTEN IN THIS $\underline{\text{TEST BOOKLET}}$ WILL BE SCORED.

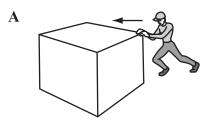
Identify three *different* ways that human beings use plants.

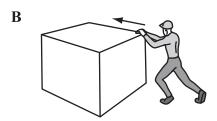
Use the following information to answer questions 40 through 43.

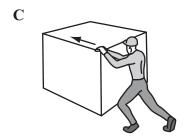


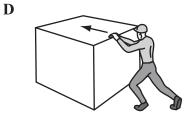
In a typical warehouse, like the one shown in the diagram above, workers use different methods to move large boxes from one place to another. Answer the following questions about handling large boxes in a warehouse.

Worker A wants to push a heavy box. Which of the following diagrams shows the *best* place for him to use force if he wants to move the box in a straight line?









- 41 Worker B pushes a crowbar under the lid to open the box. How is the crowbar being used?
 - **A** as a lever and as a pulley
 - **B** as a wedge and as a lever
 - **C** as a lever and as an inclined plane
 - **D** as a wedge and as an inclined plane
- 42 What force is working against the box as the crane lifts it into the air?
 - **A** effort
 - **B** friction
 - **C** gravity
 - **D** distance

ANSWER THE FOLLOWING CONSTRUCTED-RESPONSE ITEM IN YOUR ANSWER FOLDER.

43 Constructed-Response (3 points)

Using the diagram of the warehouse, respond to the following:

- Identify the force that is created between the box and the ramp when the box is pushed on the ramp.
- Describe two ways to reduce this force.

NOTHING WRITTEN IN THIS TEST BOOKLET WILL BE SCORED.

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Grade 5 Key

Item #	Key	Benchmark
3	С	V.1.e.3
4	С	V.1.e.1
5	D	I.1.e.2
18	Α	III.2.e.5
19	С	III.2.e.5
20	Α	III.2.e.5
21	CR	II.1.e.4
40	D	IV.3.e.2
41	В	IV.3.e.4
42	С	IV.3.e.2
43	CR	IV.3.e.2

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